

Detailed Engineer's Estimate and Total Project Cost									
Project Information:									
Agency:	City of Alameda								
Prepared by:	Urban Design Consulting Engineers Jason Ling, PE, for City of Alameda								
Project Description:	Includes bike lanes, railroad track removal, sidewalk improvements, pavement resurfcing, intersection, driveway and streetscape improvements, accessible curb ramps, and accessible parking, as well as a bicycle education program.								
Location:	The project is located in Alameda, California on Clement Avenue between Grant Street and Broadway.								
Engineer's Estimate and Cost Breakdown:									
						Local Match (11.47%)		CIP 2018 (88.53%)	
Item No.	Item	Quantity	Units	Unit Cost	Total Item Cost	%	\$	%	\$
1	MOBILIZATION	1	LS	\$20,000.00	\$20,000	11.47%	\$2,294	88.53%	\$17,706
2	TRAFFIC CONTROL	1	LS	\$20,000.00	\$20,000	11.47%	\$2,294	88.53%	\$17,706
3	SWPPP PREPARATION AND IMPLEMENTATION	1	LS	\$5,000.00	\$5,000	11.47%	\$574	88.53%	\$4,427
4	REMOVE (E) RAILS, TIES, RAILWAY SIGNS	6800	LS	\$70.00	\$476,000	11.47%	\$54,597	88.53%	\$421,403
5	REMOVE (E) 4" AC IN TRACK FOOTPRINT (6')	40800	SF	\$7.00	\$285,600	11.47%	\$32,758	88.53%	\$252,842
6	REMOVE (E) 15" AB / BASE IN TRACK FOOTPRINT (6')	3778	CY	\$150.00	\$566,667	11.47%	\$64,997	88.53%	\$501,670
7	REMOVE (E) DRIVEWAY	408	SF	\$5.50	\$2,244	11.47%	\$257	88.53%	\$1,987
8	REMOVE (E) CURB RAMP	2940	SF	\$5.50	\$16,170	11.47%	\$1,855	88.53%	\$14,315
9	REMOVE (E)CONCRETE CURB AND GUTTER	2600	LF	\$15.00	\$39,000	11.47%	\$4,473	88.53%	\$34,527
10	REMOVE (E) 4"AC PAVEMENT (AC PLUG)	5200	SF	\$7.00	\$36,400	11.47%	\$4,175	88.53%	\$32,225
11	REMOVE (E)8" AB (AC PLUG)	128	CY	\$27.50	\$3,531	11.47%	\$405	88.53%	\$3,126
12	REMOVE (E) 4"SIDEWALK CONCRETE	1733	SF	\$5.50	\$9,533	11.47%	\$1,093	88.53%	\$8,440
13	INSTALL 4" CONCRETE SIDEWALK	19133	SF	\$13.71	\$262,400	11.47%	\$30,097	88.53%	\$232,303
14	INSTALL CONCRETE CURB AND GUTTER FOR BULBOUTS	3988	LF	\$63.00	\$251,244	11.47%	\$28,818	88.53%	\$222,426
15	INSTALL 4" AC PAVEMENT AT TRACK REMOVAL	80	TON	237	\$19,019	11.47%	\$2,181	88.53%	\$16,837
16	INSTALL 15" AB AT TRACK REMOVAL	3778	TON	43	\$162,444	11.47%	\$18,632	88.53%	\$143,812
17	INSTALL GRIND AND 2" AC OVERLAY ON BIKE LANES ONLY (5' + 6')	1154	TON	\$237.00	\$273,574	11.47%	\$31,379	88.53%	\$242,195
18	INSTALL CURB RAMPS	60	EA	\$3,500.00	\$210,000	11.47%	\$24,087	88.53%	\$185,913
19	INSTALL DRIVEWAY	408	SF	\$30.00	\$12,240	11.47%	\$1,404	88.53%	\$10,836
20	INSTALL DRAINAGE INLET	5	EA	\$5,000.00	\$25,000	11.47%	\$2,868	88.53%	\$22,133
21	INSTALL 12" STORM DRAINAGE PIPE	120	LF	\$140.00	\$16,800	11.47%	\$1,927	88.53%	\$14,873
22	ADJUST MANHOLE AND VAULT TO FINISH GRADE	55	EA	\$1,500.00	\$82,500	11.47%	\$9,463	88.53%	\$73,037
23	STRIPING AND MARKING	40800	LF	\$2.00	\$81,600	11.47%	\$9,360	88.53%	\$72,240
24	ALLOWANCE FOR FILL AND GRIND CONCRETE SIDEWALK	1	LS	\$150,000.00	\$150,000	11.47%	\$17,205	88.53%	\$132,795
25	CURB COLOR MARKING	13600	LF	\$2.00	\$27,200	11.47%	\$3,120	88.53%	\$24,080
26	TRAFFIC SIGNS	20	EA	\$500.00	\$10,000	11.47%	\$1,147	88.53%	\$8,853
27	PEDESTRIAN SIGNS	20	EA	\$500.00	\$10,000	11.47%	\$1,147	88.53%	\$8,853
28	BIKE RACKS	24	EA	\$2,000.00	\$48,000	11.47%	\$5,506	88.53%	\$42,494
29	GATEWAY FEATURES	3	EA	\$20,000.00	\$60,000	11.47%	\$6,882	88.53%	\$53,118
30	BUS SHELTERS	2	EA	\$12,000.00	\$24,000	11.47%	\$2,753	88.53%	\$21,247
31	ACCESSIBLE PARKING AND SIGNAGE	3	EA	6,000	\$18,000	11.47%	\$2,065	88.53%	\$15,935
32	STREET LIGHTING UPGRADES AT MARKED CROSSWALK LOCATIONS (INTER	9	EA	10,000	\$90,000	11.47%	\$10,323	88.53%	\$79,677
33	RECTANGULAR RAPID FIRE BEACON	2	EA	\$25,000.00	\$50,000	11.47%	\$5,735	88.53%	\$44,265
34	ALLOWANCE FOR GREEN INFRASTRUCTURE	1	LS	\$250,000.00	\$250,000	11.47%	\$28,675	88.53%	\$221,325
35	INSTALL / REFURBISH TREES AND TREE WELLS	100	EA	\$2,500.00	\$250,000	11.47%	\$28,675	88.53%	\$221,325
36	WAY FINDING SIGNAGE	50	EA	500	\$25,000	11.47%	\$2,868	88.53%	\$22,133
Subtotal of Construction Items:					\$3,889,166		\$249,501		
Construction Item Contingencies (% of Construction Items):				10.00%	\$388,917				
Total (Construction Items & Contingencies) cost:					\$4,278,082				
Project Cost Estimate:									
Type of Project Delivery Cost				Cost \$					
Preliminary Engineering (PE)						CIP	Local	11.47%	
Environmental Studies and Permits(PA&ED):				\$	140,000	\$	123,942	\$	16,058
Plans, Specifications and Estimates (PS&E):				\$	500,000	\$	442,650	\$	57,350
Total PE:				\$	640,000	14.96%			
Construction (CON)									
Construction Engineering (CE):				\$	750,000	14.92%			
Total Construction Items & Contingencies:				\$4,278,082					
Total CON:				\$	5,028,082	\$	4,451,361	\$	576,721
Total Project Cost Estimate:				\$	5,668,082				